

PATENT ABSTRACTS

[File 347] JAPIO Dec 1976-2007/Oct(Updated 080129)

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[File 350] Derwent WPIX 1963-2008/UD=200812

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; d s

Set Items Postings Description

S1 25785 85439 S OBSERVER? ? OR LISTENER? ?

S2 1500164 8562527 S OBJECT? ? OR SUBJECT? ? OR RESOURCE? ? OR CODE? ?

S3 4527039 17755483 S SPACE? ? OR OBJECTSPACE? ? OR LOCATION? ? OR LOCALE? ? OR AREA? ?
OR PLACE? ?

S4 92032 353788 S S3(3N)(SHARE? ? OR SHARING OR COMMON OR TOGETHER OR COLOCAT???)
OR CO(LOCAT???) OR SAME)

S5 18913 144321 S VIRTUAL(MACHINE? ? OR VM OR JVM OR EVENT? ?(2N)(HANDL???) OR
SYSTEM? ?)

S6 1 55 S S1 AND S2 AND S4 AND S5

S7 97 739 S S1(10N)(SHARE? ? OR SHARING OR COMMON OR TOGETHER OR COLOCAT???)
OR CO(LOCAT???) OR SAME)(10N)S2

S8 2 36 S S7 AND S5

S9 1 8 S S8 NOT S6

S10 104160 590204 S (APPLICATION? ? OR APP? ? OR PROGRAM? ?)(3N)(TWO OR SECOND OR 2ND
OR MULTI OR MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURALITY OR SEVERAL OR MANY OR
ANOTHER OR OTHER)

S11 382 4964 S S10 AND S1

S12 39471 207659 S S1:S2(3N)(SHARE? ? OR SHARING OR COMMON OR TOGETHER OR
COLOCAT???) OR CO(LOCAT???) OR SAME)

S13 17 507 S S12 AND S11

S14 15 405 S S13 NOT (S6 OR S9)

S15 13 376 S S14 NOT AD=20031022:20080305/PR

S16 104 370 S LISTENER? ?(3N)(SHARE? ? OR SHARING OR COMMON OR TOGETHER OR
COLOCAT???) OR CO(LOCAT???) OR SAME)

S17 2 28 S S16 AND S5

S18 83 799 S LISTENER? AND S4

S19 1 40 S S18 AND S5

S20 2 67 S S17 OR S19

S21 0 0 S S20 NOT (S6 OR S9 OR S15)

*** your application ***]

6/5/1 (Item 1 from file: 350) [Links](#)

Fulltext available through: [Order File History](#)

Derwent WPIX

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0015006768 & *Drawing available*

WPI Acc no: 2005-354673/200536

XRPX Acc No: N2005-289622

System for concurrent operation of multiple applications in computer system, has shared objects accessed by two applications running in Java virtual machine, and event listener operably associated with applications

Patent Assignee: BRETL R (BRET-L); MONNIE D J (MONN-I)

Inventor: BRETL R; MONNIE D J

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050097567	A1	20050505	US 2003690793	A	20031021	200536	B

Priority Applications (no., kind, date): US 2003690793 A 20031021

Patent Details

Patent Number	Kind	Lang	Pgs	Draw	Filing Notes
US 20050097567	A1	EN	23	12	

Alerting Abstract US A1

NOVELTY - The system includes the shared object space including shared objects that are accessible by two applications running in the Java virtual machine, such that the applications create events in the object. A listener of the events, is operably associated with the applications.

USE - For concurrent operation of multiple computer application, for use in telecommunication industry.

ADVANTAGE - Enables updating the shared objects by simultaneously running applications, and improving the speed of the computer activity.

DESCRIPTION OF DRAWINGS - The figure shows a block diagram illustrating the operation of the multiple applications running on host computer.

[** bad date, but fyi**]

9/3,K/1 (Item 1 from file: 350) [Links](#)

Fulltext available through: [Order File History](#)

Derwent WPIX

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0016365617 & & *Drawing available*

WPI Acc no: 2007-081787/200708

XRPX Acc No: N2007-056842

Objet treatment method for use in computing system, involves notification of application of invalidation of shared object to remote cache manager and local cache manager

Patent Assignee: PETEV P G (PETE-I)

Inventor: PETEV P G

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20060248284	A1	20061102	US 2005118797	A	20050429	200708	B

Priority Applications (no., kind, date): US 2005118797 A 20050429

Patent Details

Patent Number	Kind	Lang	Pgs	Draw	Filing Notes
US 20060248284	A1	EN	49	28	

Original Publication Data by AuthorityOriginal Abstracts:One embodiment of the invention employs techniques for using a message server to route shared object management messages between virtual machines and/or worker nodes. A worker node may include a cache manager, a listener, and a listener registration table. A shared lock is provided to ensure that the object's properties are consistent across the worker nodes.

15/5/5 (Item 5 from file: 350) [Links](#)

Fulltext available through: [Order File History](#)

Derwent WPIX

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0010683158

WPI Acc no: 2001-292513/200131

XRFX Acc No: N2001-209080

System for exchanging information between software modules includes a broker maintaining lists of required communications and instructs the appropriate modules to communicate directly

Patent Assignee: AVAYA TECHNOLOGY CORP (AVAY-N); LUCENT TECHNOLOGIES INC (LUCF)

Inventor: COHEN M A; LONG J D

Patent Family (5 patents, 28 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 1056007	A2	20001129	EP 2000304075	A	20000515	200131	B
JP 2001014179	A	20010119	JP 2000158179	A	20000529	200131	E
KR 2001007119	A	20010126	KR 200028278	A	20000525	200152	E
US 6782541	B1	20040824	US 1999322362	A	19990528	200457	E
JP 3739633	B2	20060125	JP 2000158179	A	20000529	200608	E

Priority Applications (no., kind, date): US 1999322362 A 19990528

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
EP 1056007	A2	EN	19	7	
Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI				
JP 2001014179	A	JA	19		
JP 3739633	B2	JA	20		Previously issued patent JP 2001014179

Alerting Abstract EP A2

NOVELTY - The system includes software modules including a broker module and observer and notifier modules. The modules are created in discrete addressable memory locations in one or more network-connected computers. The broker maintains one or more lookup tables having the identities and memory or network locations of all the notifier and observer software modules as well as the classes of events with which the modules are concerned. When a new notifier module is created or an observer module adds a subscription for certain events the broker adds the new module to its lookup tables which are then scanned to match notifiers and observers. If the broker determines that a notifier and an observer share an event class the broker instructs the notifier to send notification of the happening of a triggering event directly to the interested observer. Thus the broker establishes and updates the required interconnections but is not otherwise concerned with exchanges which are undertaken directly. DESCRIPTION - An INDEPENDENT CLAIM is included for a method of exchanging information between software modules.

USE - In Object Orientated computer programming.

ADVANTAGE - Establishing direct communications between modules avoids difficulties when an active exchange facility becomes congested with high traffic levels, such as when audio or vide streaming is involved.

15/5/7 (Item 7 from file: 350) [Links](#)

Fulltext available through: [Order File History](#)

Derwent WPIX

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0009611258 & & *Drawing available*

WPI Acc no: 1999-560923/199947

XRPX Acc No: N1999-414469

Service quality monitoring system in distributed processing environment

Patent Assignee: HEWLETT-PACKARD CO (HEWP)

Inventor: FRIEDRICH R J; MATINKA J J; SIENKNECHT T F

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5958009	A	19990928	US 1997807734	A	19970227	199947	B

Priority Applications (no., kind, date): US 1997807734 A 19970227

Patent Details

Patent Number	Kind	Lang	Pgs	Draw	Filing Notes
US 5958009	A	EN	14	5	

Alerting Abstract US A

NOVELTY - The observer (43) transfers data collected by intelligent sensor (42) by eliminating transfer of unchanged and zero values of collected data to minimize data traffic and copies data into configuration address space for each sensor.

DESCRIPTION - The intelligent sensor (42) incorporated in each of application processes, selectively collect data about associated application process and node upon which associated application process operates, whenever threshold information level for intelligent sensor has been exceeded. The collector data interface (49) periodically stores internalized collected data from observer into collector (44). Analyzer data interface (50) asynchronously receives internalized collected data and periodically stores that into analyzer (48). The collected data is stored into local process address space of the sensor. The repository (51) stores configuration data for intelligent sensor, observer, collector for each application process. The presenter (52) interactively produces logically integrated view of collected data provided by the analyzer (50). The interpreter (53) evaluates and identifies complex relationship between the collected data from analyzer. The controller (54) sets and modifies system parameters and configuration based on the collected data provided by the analyzer. An INDEPENDENT CLAIM is also included for describing the computer program instrumenting method.

USE - For monitoring service quality of distributed processing environment such as open group's distributed computing environment (DCE) and common object request broker architecture (CORBA).

ADVANTAGE - Two or more intelligent sensors are used for improving processing efficiency. The analyzer data interface minimizes the number of network packets exchanged between the collector and the analyzer and the analyzer data interface and collector data interface periodically stores data collected by intelligent sensor periodically into analyzer and collector respectively, thereby improves scalability to large network and reduces collection and processing overhead. Supports collection of quality of service metrics for application processes on heterogeneous operating system platforms and eliminates need to have specialized instrumentation in each host operating system.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram of system for efficiently monitoring quality of service in distributed operating environment.

42 Intelligent sensor

43 Observer

44 Collector

48 Analyzer

49 Collector data interface

50 Analyzer data interface
51 Repository
52 Presenter
53 Interpreter
54 Controller

FULL-TEXT PATENTS

[File 348] EUROPEAN PATENTS 1978-2007/ 200809

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[File 349] PCT FULLTEXT 1979-2008/UB=20080131UT=20080124

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Set Items Postings Description

S1 43424 225371 S OBSERVER? ? OR LISTENER? ?

S2 1423893 19379483 S OBJECT? ? OR SUBJECT? ? OR RESOURCE? ? OR CODE? ?

S3 1886078 27932038 S SPACE? ? OR OBJECTSPACE? ? OR LOCATION? ? OR LOCALE? ? OR AREA? ?
OR PLACE? ?

S4 161300 650052 S S3(3N)(SHARE? ? OR SHARING OR COMMON OR TOGETHER OR COLOCAT???
OR COLOCAT??? OR SAME)

S5 44148 376804 S VIRTUAL()MACHINE? ? OR VM OR JVM OR EVENT? ?(2N)(HANDL??? OR
SYSTEM? ?)

S6 130 1646 S S1(50N)S2(50N)S4

S7 6 145 S S6(100N)S5

S8 479 3458 S S1(10N)(SHARE? ? OR SHARING OR COMMON OR TOGETHER OR COLOCAT???
OR COLOCAT??? OR SAME)(10N)S2

S9 12 148 S S8(100N)S5

S10 8 97 S S9 NOT S7

S11 7 90 S S10 NOT AD=20031022:20080305/PR

S12 363399 2001504 S (APPLICATION? ? OR APP? ? OR PROGRAM? ?)(3N)(TWO OR SECOND OR
2ND OR MULTI OR MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURALITY OR SEVERAL OR
MANY OR ANOTHER OR OTHER)

S13 486 2297 S S12(20N)S1

S14 97466 518736 S S1:S2(3N)(SHARE? ? OR SHARING OR COMMON OR TOGETHER OR
COLOCAT??? OR COLOCAT??? OR SAME)

S15 12 160 S S13(50N)(S14 OR S4(10N)S1:S2)

S16 10 53 S S15 NOT (S7 OR S11)

S17 8 43 S S16 NOT AD=20031022:20080305/PR

7/3K/1 (Item 1 from file: 348) [Links](#)

Fulltext available through: [Order File History](#)

EUROPEAN PATENTS

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01450339

Virtual machine integration application program interface

Anwendungsprogrammierungsschnittstelle zur Integration einer virtuellen Maschine

Interface de programme d'application pour integration d'une machine virtuelle

Patent Assignee:

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(Applicant designated States: all)

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Patent- und Rechtsanwälte Arabellastrasse 4; 81925 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	1241572	A2	20020918	(Basic)
Application	EP	2002004337		20020301	
Priorities	US	797864		20010301	

Designated States:

AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;

GR; IE; IT; LI; LU; MC; NL; PT; SE; TR;

Extended Designated States:

AL; LT; LV; MK; RO; SI;

International Patent Class (V7): G06F-009/455; G06F-009/54Abstract Word Count: 90

NOTE: 2

NOTE: Figure number on first page: 2

Type	Pub. Date	Kind	Text	
Publication: English				
Procedural: English				
Application: English				
Available Text		Language	Update	Word Count
CLAIMS A		(English)	200238	605
SPEC A		(English)	200238	3734
Total Word Count (Document A) 4339				
Total Word Count (Document B) 0				
Total Word Count (All Documents) 4339				

Specification: ...case there must be a common method to communicate between the extension library on the VM side 515 and the extension library on the host side 520.

To do so, host application independent component 500, when needed, creates a separate process 525, which has the VM 530 inside and uses shared memory as the transport medium. Then, host application calls are similar, except, when a non-trivial call is made from the VM side 515, it cannot be handled directly as a message. Instead a remote bridge is... ..The remote bridge operates by passing arguments by reference (i.e. address) to a called object, solving the problem where there is no common address space). Without common address space pointers from one process are invalid in another, thus, in a two-process case everything.... ..process cases, a special channel is needed to assist the host application in handling asynchronous VM side requests. In one embodiment, a listener on a message queue (or on another transport) is used.

It is noted that a...

11/3K/2 (Item 2 from file: 348) [Links](#)

Fulltext available through: [Order File History](#)

EUROPEAN PATENTS

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01085927

DEFERRED RECONSTRUCTION OF OBJECTS AND REMOTE LOADING FOR EVENT

NOTIFICATION IN A DISTRIBUTED SYSTEM

HINAUSGEZOGERTE WIEDERHERSTELLUNG VON OBJEKTEN UND ENTTERNTER LADUNG FÜR DIE

MITTEILUNG VON EREIGNISSEN IN EINEM VERTEILTEN SYSTEM

RECONSTITUTION DIFFEREE D'OBJETS ET TELECHARGEMENT DE NOTIFICATIONS D'EVENEMENTS

DANS UN SYSTEME DECENTRALISE

Patent Assignee:

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(Proprietor designated states: all)

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Legal Representative:

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Marks & Clerk, 57-60 Lincoln's Inn Fields; London WC2A 3LS; (GB)

	Country	Number	Kind	Date	
Patent	EP	1057113	A2	20001206	(Basic)
	EP	1057113	B1	20021030	
	WO	99044139		19990902	
Application	EP	99908165		19990216	
	WO	99US3224		19990216	
Priorities	US	76048	P	19980226	
	US	44919		19980320	

Designated States:

DE; FR; GB; IE; NL; SE;

Related Divisions: Patent (Application):EP 1235149 (EP 2002011151)

International Patent Class (V7): G06F-013/00

NOTE: No A-document published by EPO

Type	Pub. Date	Kind	Text
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Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200244	663
CLAIMS B	(German)	200244	753
CLAIMS B	(French)	200244	811
SPEC B	(English)	200244	6761
Total Word Count (Document A) 0			
Total Word Count (Document B) 8988			
Total Word Count (All Documents) 8988			

Specification: ...distributed system or network may use marshalled objects in conjunction with registration for notification of events within the system. FIG. 9 is a diagram of a distributed network 900 illustrating event notification. Network 900... ..having RMI 905 and object 906, and an event generator 907 having RMI 908 and object 909 for providing event notification. Machine 904 may be the same as remote event listener 901, as indicated by the dashed line, or they may be separate machines.

Machine 904...

[** bad date? **]

11/3K/3 (Item 1 from file: 349) [Links](#)

Fulltext available through: [Order File History](#)

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01185938

A PUBLISH/SUBSCRIBE MECHANISM FOR WEB SERVICES

SYSTEME DE PUBLICATION/ABONNEMENT POUR SERVICES WEB

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	Country	Number	Kind	Date
Patent	WO	2004107216	A2-A3	20041209
Application	WO	2004US16174		20040521
Priorities	US	2003473323		20030523

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;
IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;
TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;
VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: English
Fulltext word count: 5611

Detailed Description:

...a web client,
2 0 its endpoint may be used to create a new event listener object. The listener object and the event filter provided as part of the subscription request may then be registered with the common services runtime system. When an event matching the subscription criteria occurs in the runtime system, the handleEvent method of the event listener is invoked by the event manager. The method encodes the event in SOAP/XML, and...

11/3K/6 (Item 4 from file: 349) [Links](#)

Fulltext available through: [Order File History](#)

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00747898

SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR EVENT AND ACTION MANAGEMENT IN DATA PROCESSING SYSTEMS USING EVENT HANDLER INTERMEDIARIES
SYSTEMES, PROCEDES ET PROCEDES DE GESTION D'EVENEMENTS ET D'ACTIONS DANS DES SYSTEMES DE TRAITEMENT DE DONNEES UTILISANT DES INTERMEDIAIRES DE TRAITEMENT D'EVENEMENTS

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	Country	Number	Kind	Date
Patent	WO	200060455	A2-A3	20001012
Application	WO	2000US8509		20000328
Priorities	US	99285394		19990402

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; SD; SL; SZ; TZ; UG;
ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 10980

Detailed Description:

...Source objects and Event Listener objects. For example, as illustrated in Fig. 10, in a JVM 1010, Event Source objects 310a, 310b and Event Listener objects 330 may be associated with unique instances 320a, 320b, 320c of an Event Handler class. A respective one of the instances 320a, 320b, 320c includes a respective security identification... The instances 320a, 320b, 320c also share static data 322 that is used by the Event Handler instances 320a, 320b to route Event objects.

10 As illustrated, the Event Handler instance 320c associated with the Event Listener 320 may be destroyed once shared static data associated with the Event Listener object 330 is created and thus conveyed to the other Event Handler instances 320, 320b, which persist as long as the JVM 1010 exists.

The security identifications 321a, 321b, 321c may be used by the Event Handler 15 objects 320a, 320b, 320c, for example, to validate transfers of Event objects via...

Claims:

...step of identifying an Event object comprises the step of instantiating an instance of an Event Handler class, the instance specific to the Event Source object.

18 A method according to... instantiating a second Event Handler object specific to the Event Listener object, the second Event Handler object and the first Event Handler object sharing data that links the Event Listener object and the target event definition; wherein said step of communicating an event description from the Event Source object to the Event Handler object comprises the step of communicating the event description

15 to the first Event Handler object; and wherein said step of communicating the event description from the Event Handler object to the Event Listener object comprises the step of communicating the event description from the first Event Handler object to the Event Listener object if the event described by the event description meets the target event definition linked to the Event Listener object in the shared data

19 A method according to Claim 17, wherein the instance of the Event Handler class specific to the Event Source object includes a security identification, and wherein at least ...event to a corresponding action; wherein said step of communicating the event description from the Event Handler object to the Event Listener object comprises the step of communicating the event description
the... object.

[** bad date?]**]

17/3K/5 (Item 2 from file: 349) [Links](#)

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PCT FULLTEXT

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01141875

A SYSTEM AND METHOD FOR PROCESSING HARDWARE OR SERVICE USAGE AND INTELLIGENT DATA CACHING
SYSTEME ET PROCEDE POUR TRAITER L'UTILISATION DE MATERIEL OU DE SERVICES, ET ANTEMEMORISATION DE DONNEES INTELLIGENTE

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(Designated only for: US)
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(Designated only for: US)

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Legal Representative:

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	Country	Number	Kind	Date
Patent	WO	200463866	A2-A3	20040729
Application	WO	2004US186		20040107
Priorities	US	2003338560		20030108
	US	2003338172		20030108

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;

IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;
TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;
VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; SD; SL; SZ;
TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
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Fulltext word count: 16397
Detailed Description:

...receipt of additional
data access requests from an application service 212a.

In an alternate embodiment, listener 203a may be
configured to process data access requests from a
plurality of application services 212a substantially
simultaneously.

According to teachings of the present invention,
query threads 206a are... ..operable to provide a
query thread, link or channel between an application
service 212a and common data memory object 209a. Once
communications have been established or otherwise enabled
between an application service 212a requesting...

NPL

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; d s

Set Items Postings Description

S1 186870 379135 S OBSERVER? ? OR LISTENER? ?

S2 4780918 10011558 S OBJECT? ? OR SUBJECT? ? OR RESOURCE? ? OR CODE? ?

S3 8566910 14861514 S SPACE? ? OR OBJECTSPACE? ? OR LOCATION? ? OR LOCALE? ? OR AREA? ?
OR PLACE? ?

S4 106591 236289 S S3(3N)(SHARE? ? OR SHARING OR COMMON OR TOGETHER OR COLOCAT???
OR COLOCAT??? OR SAME)

S5 62079 200851 S VIRTUAL()MACHINE? ? OR VM OR JVM OR EVENT? ?(2N)(HANDL??? OR
SYSTEM? ?)

S6 0 0 S S1 AND S2 AND S4 AND S5

S7 661 2693 S S1(10N)(SHARE? ? OR SHARING OR COMMON OR TOGETHER OR COLOCAT???
OR COLOCAT??? OR SAME)

S8 3 36 S S7 AND S5

S9 2 9 RD (unique items)

S10 564045 1243294 S (APPLICATION? ? OR APP? ? OR PROGRAM? ?)(3N)(TWO OR SECOND OR
2ND OR MULTI OR MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURALITY OR SEVERAL OR
MANY OR ANOTHER OR OTHER)

S11	2024	12579	S S10 AND S5
S12	98887	251551	S S1:S2(3N)(SHARE? ? OR SHARING OR COMMON OR TOGETHER OR COLOCAT??? OR CO()LOCAT??? OR SAME)
S13	89	1041	S S12 AND S11
S14	19	130	S S10 AND S7
S15	7	51	RD (unique items)
S16	7	51	S S15 NOT S9
S17	3	29	S S16 NOT PY=2004:2008
S18	22552	45715	S LISTENER? ?
S19	16	102	S S18 AND S2 AND S5
S20	235	963	S S18 AND S10
S21	49	261	S S20 AND (SHARE? ? OR SHARING OR COMMON OR TOGETHER OR COLOCAT??? OR CO()LOCAT??? OR SAME)
S22	65	363	S S19 OR S21
S23	49	273	RD (unique items)
S24	37	197	S S23 NOT PY=2004:2008
S25	37	197	S S24 NOT (S9 OR S16)
S26	25	102	S S18 AND S5
S27	17	73	RD (unique items)
S28	12	53	S S27 NOT (S9 OR S16 OR S25)
S29	5	17	S S28 NOT PY=2004:2008

9/5/1 (Item 1 from file: 2) [Links](#)

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07964806 INSPEC Abstract Number: B2001-08-0170N-003, C2001-08-1220-005

Title: On the construction of modular observers and diagnosers for discrete-event systems

Author Ricker, S.L.; Fabre, E.

Author Affiliation: CWI, Amsterdam, Netherlands

Conference Title: Proceedings of the 39th IEEE Conference on Decision and Control (Cat. No.00CH37187) Part vol.3 p. 2240-4 vol.3

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Treatment: Theoretical (T)

Abstract: A modular approach for designing observers and diagnosers for detecting faults in large distributed systems is presented. In particular, the model is based on a discrete-event system framework. The model assumes that the system is composed of distributed components that interact with each other via sets of common resources. Modularity can be achieved by imposing a total ordering on access to the common resources. Further, a component's own access to a common resource is an observable event. It is then possible to partition component behavior such that an observer of a component's behavior need not be aware of all the behavior of other components that use the same resources. Procedures for the design of such observers and the subsequent construction of diagnosers are given. (9 Refs)

Subfile: B C

Descriptors: discrete event systems; fault diagnosis; observers

Identifiers: modular observers construction; observer design; diagnoser construction; diagnoser design; discrete-event systems; fault detection; large distributed systems; distributed components; common resources

Class Codes: B0170N (Reliability); C1220 (Simulation, modelling and identification); C1340D (Discrete control systems)

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